

City of Fayetteville Staff Review Form

2018-0741

Legistar File ID

2/5/2019

City Council Meeting Date - Agenda Item Only
N/A for Non-Agenda Item

Greg Weeks

1/4/2019

WASTEWATER TREATMENT (730)

Submitted By

Submitted Date

Division / Department

Action Recommendation:

Staff recommends the approval of the purchase of spare parts and repair services for the thermal drying unit located at the Biosolids Management Site (BMS) from AIT Services, Inc. in the amount of \$117,917.67 plus applicable taxes, to approve a project contingency in the amount of \$20,000.00, and to authorize future purchases of parts and repair services through December 31, 2019.

Budget Impact:

5400.730.5800-5414.00	Water/Sewer																														
Account Number	Fund																														
02069.1	Plant Pumps and Equipment - WWTP																														
Project Number	Project Title																														
<table border="0" style="width: 100%;"> <tr> <td style="width: 30%;">Budgeted Item?</td> <td style="width: 10%; text-align: center;">Yes</td> <td style="width: 30%; border-bottom: 1px solid black;">Current Budget</td> <td style="width: 10%; text-align: right;">\$</td> <td style="width: 10%; text-align: right;">844,807.00</td> </tr> <tr> <td></td> <td></td> <td style="border-bottom: 1px solid black;">Funds Obligated</td> <td style="text-align: right;">\$</td> <td style="text-align: right;">698,366.79</td> </tr> <tr> <td></td> <td></td> <td style="border-bottom: 1px solid black;">Current Balance</td> <td style="text-align: right;">\$</td> <td style="text-align: right;">146,440.21</td> </tr> </table>	Budgeted Item?	Yes	Current Budget	\$	844,807.00			Funds Obligated	\$	698,366.79			Current Balance	\$	146,440.21	<table border="0" style="width: 100%;"> <tr> <td style="width: 30%;"></td> <td style="width: 10%;"></td> <td style="width: 30%; border-bottom: 1px solid black;">Item Cost</td> <td style="width: 10%; text-align: right;">\$</td> <td style="width: 10%; text-align: right;">137,917.67</td> </tr> <tr> <td style="border-bottom: 1px solid black;">Does item have a cost?</td> <td style="text-align: center; border-bottom: 1px solid black;">Yes</td> <td style="border-bottom: 1px solid black;">Budget Adjustment</td> <td style="text-align: right;">\$</td> <td style="text-align: right;">-</td> </tr> <tr> <td style="border-bottom: 1px solid black;">Budget Adjustment Attached?</td> <td style="text-align: center; border-bottom: 1px solid black;">No</td> <td style="border-bottom: 1px solid black;">Remaining Budget</td> <td style="text-align: right;">\$</td> <td style="text-align: right;">8,522.54</td> </tr> </table>			Item Cost	\$	137,917.67	Does item have a cost?	Yes	Budget Adjustment	\$	-	Budget Adjustment Attached?	No	Remaining Budget	\$	8,522.54
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V20180321

Purchase Order Number: _____

Previous Ordinance or Resolution # _____

Change Order Number: _____

Approval Date: _____

Original Contract Number: _____

Comments:



MEETING OF FEBRUARY 5, 2019

TO: Mayor and City Council

THRU: Don Marr, Chief of Staff
Tim Nyander, Utilities Director
Water and Sewer Committee

FROM: Greg Weeks, Jacobs Area Manager

DATE: January 4, 2019

SUBJECT: Thermal Dryer Parts and Repairs at the Biosolids Management Site

RECOMMENDATION:

Staff recommends the approval of the purchase of spare parts and repair services for the thermal drying unit located at the Biosolids Management Site (BMS) from AIT Services, Inc. in the amount of \$117,917.67 plus applicable taxes, to approve a project contingency in the amount of \$20,000.00, and to authorize future purchases of parts and repair services through December 31, 2019.

BACKGROUND:

Biosolids are the solid by-product from the water recovery process. Prior to 2012, all biosolids were landfill disposed. In 2012, the City implemented a sustainable, beneficial reuse drying process that converts the biosolids to a thermally dehydrated, organic-based Class-A, Exceptional Quality fertilizer, which is then sold for public use. The drying process is accomplished through operation of a 24-cubic yard Fenton CM 7214 Thermal Dryer system. The biosolids drying process saves the City significant landfill costs annually, and through November 2018 generated approximately \$48,500 in fertilizer sales.

DISCUSSION:

The biosolids are dried within a rotating drum supported on either end by large split bearings. Recent equipment inspections performed by AIT Services, Inc. identified stress damage to both split bearings; more recently shaft movement has also been measured pointing towards impending bearing failure. The manufacturer specified bearings are fabricated on a per order basis resulting in lead times of up to 5 months. If a bearing fails without the availability of a critical spare the thermal dryer down time could generate more than \$500,000 of additional landfill fees while waiting for parts fabrication and delivery. The recent equipment inspection also identified several dryer components that are recommended to be replaced due to wear. These parts are needed to extend the life of the dryer for up to 5 more years. AIT Services, Inc is the sole authorized service and parts provider for Fenton Drying Systems.

AIT Services, Inc. quoted \$114,917.67 for the thermal dryer parts and repairs, and freight has been estimated in the amount of \$3,000.00 for a total of \$117,617.67. City staff recommends the approval of a contingency in the amount of \$20,000.00 for potential parts and labor costs that could arise during the repair process.

BUDGET/STAFF IMPACT:

Funds are available in the Wastewater Treatment Plant CIP – Plant Pumps and Equipment project.

Attachments:

Quotes from AIT Services, Inc.

AIT Services, INC.
 1100 CR 134
 Brownwood, TX 76801
 325-646-9754



QUOTE 11/7/18

TO	SHIP TO	INSTRUCTIONS
City of Fayetteville 2435 S Industrial Dr Fayetteville, AR 72701	Same as recipient	Add additional instructions

QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
1	Rotor sprocket	\$9,669.52	\$9,669.52
1	Motor drive sprocket	\$8,508.09	\$8,508.09
1	Complete swivel	\$22,659.63	\$22,659.63
2	Swivel rebuild kit including brass compression rings and compression washers	\$2,602.55	\$5,205.10
1	Stainless Steel Venturi	\$2,453.88	\$2,453.88
1	Stainless Steel U trough with classifier box and screen. approximately 12' 3" long with lids and one end	\$9,927.44	\$9,927.44
2	Rotor packing glands this includes two aluminum packing rings and packing	\$1,303.87	\$2,607.74
1	Chamber product fill limiting arm plus bearings	\$385.00	\$385.00
1	Thermocouple brush parts plus bearings and extra brush	\$735.00	\$735.00
1	Water column gauge 0-10"	\$81.25	\$81.25

SUBTOTAL	\$62,232.65
SALES TAX	0
PLUS, ALL SHIPPING	TBD
TOTAL	\$62,232.65

Thank you for your business!

AIT Services, INC.
 1100 CR 134
 Brownwood, TX 76801
 325-646-9754



QUOTE 11/7/18

TO	SHIP TO	INSTRUCTIONS
City of Fayetteville 2435 S Industrial Dr Fayetteville, AR 72701	Same as recipient	Add additional instructions

QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
1	Craft Float Bearing: cartridge, bearing and pedestal	\$26,342.51	\$26,342.51
1	Craft Locking Bearing: cartridge, bearing and pedestal	\$26,342.51	\$26,342.51

These are an alternate to the cooper bearings all specs are the same

4 - 6 weeks ship date

SUBTOTAL	\$52,685.02
SALES TAX	0
PLUS, ALL SHIPPING	TBD
TOTAL	\$52,685.02

Thank you for your business!